

**STUDENT BOOK ANSWERS**
**To come**
**Chapter 9: Gas laws**
**Worked example 9.1**

- 1  $n = \frac{V}{V_m} = \frac{2.33}{22.71} = 0.1026 \text{ mol}$   
 $m = n \times MM = 0.1026 \times (12.01 + (4 \times 1.008)) = 1.646 = 1.65 \text{ g (3sf)}$
- 2  $n = \frac{m}{MM} = \frac{23.0}{14.01 + (3 \times 1.008)} = 1.350 \text{ mol}$   
 $V = n \times V_m = 1.350 \times 24.79 = 33.47 = 33.5 \text{ L (3sf)}$

**Worked example 9.2**

- 1  $2\text{Na(s)} + 2\text{H}_2\text{O(l)} \rightarrow 2\text{NaOH(aq)} + \text{H}_2\text{(g)}$   
 $n(\text{Na}) = \frac{m}{MM} = \frac{1.87}{22.99 + 16.00 + 1.008} = 0.04675 \text{ mol}$   
 $n(\text{H}_2) = \frac{1}{2} \times n(\text{Na}) = 0.5 \times 0.04675 = 0.02338 \text{ mol}$   
 $V = n \times V_m = 0.02338 \times 24.79 = 0.5795 = 0.580 \text{ L (3sf)}$
- 2  $n(\text{HCl}) = \frac{V}{V_m} = \frac{13.4}{22.71} = 0.5900 \text{ mol}$   
 $2\text{KCl(aq)} + \text{H}_2\text{SO}_4\text{(aq)} \rightarrow 2\text{HCl(g)} + \text{K}_2\text{SO}_4\text{(aq)}$   
 $n(\text{KCl}) = n(\text{HCl}) = 0.5900 \text{ mol}$   
 $m(\text{KCl}) = n \times MM = 0.5900 \times (39.10 + 35.45) = 43.98 = 44.0 \text{ g (3sf)}$

**Check your understanding 9.1/9.2**

- 1 The volume of a gas changes with temperature and pressure, both of which compress or expand the gas particles.
- 2 Use the formula  $n = \frac{V}{V_m}$  to convert the volume of gas to a number of moles.  $V_m$  depends upon the temperature of the gas. Use  $m = n \times MM$  to convert the number of moles ( $n$ ) to a mass ( $m$ ) by multiplying by the molecular mass ( $MM$ ).
- 3 **a** **i**  $2 \times 250 = 500 \text{ mL}$   
**ii**  $250 \text{ mL}$   
**b** **i**  $500 \text{ mL}$   
**ii** Nothing, as the law of combining volumes only applies to gases.

# Chapter 9 Notes Cengage Learning

**Michael Rajnik**



## **Chapter 9 Notes Cengage Learning:**

## **Chapter 9 Notes Cengage Learning** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Chapter 9 Notes Cengage Learning**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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